



PROPOSED SIGNALS

MD 193 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION

1,2,5,6,9, 10,13,14,15 3,4,7,8,11, 12,16,17 18,19,20, 21,22,23

16" LED COUNTDOWN PEDESTRIAN SIGNAL

PROPOSED SIGNS

25 Lottsford RD (VAR. x16") D-3(1) (VAR. x16") 24 Woodmore RD (VAR. x16") D-3(1) (VAR. x16")

28 Woodmore RD (VAR. x16") D-3(1) (VAR. x16") 29 Lottsford RD (VAR. x16") D-3(1) (VAR. x16")

30,35 Enterprise RD (VAR. x16") D-3(2) (VAR. x16")

37 NORTH 193 SHIELD ASSEMBLY (48"x51") 38 SOUTH 193 SHIELD ASSEMBLY (48"x75") 39 NORTH 193 SHIELD ASSEMBLY (48"x75") 36 SOUTH 193 SHIELD ASSEMBLY (48"x51")

CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH SINGLE 70 FT. MAST ARM CUT DOWN TO 60' WITH PLASTIC LED SIGNAL HEADS SIGNS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION, R10-4(1)MOD, PEDESTRIAN SIGN, 250 WATT HPS LUMINAIRE, 15 FT., LIGHTING ARM, AND TERRA VIDEO DETECTION CAMERAS AT STA. 117+67.35' LT. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND)

B. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE, TWIN 50 FT. AND 70 FT. MAST ARMS, PLASTIC LED SIGNAL HEADS, SIGNS, 250 WATT HPS LUMINAIRE, 15 FT., LIGHTING ARM AND TERRA VIDEO DETECTION CAMERAS AT STA. 117+34.75' RT. (NOTE: ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND)

C. INSTALL CONCRETE FOUNDATION WITH A 10 FT. STEEL PEDESTAL POLE WITH A BREAKAWAY BASE, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION, R10-4(1)MOD, PEDESTRIAN SIGN, AUDIBLE/TACTILE PEDESTRIAN PUSH BUTTON STATION AND BLACK FACE PLATE OPTION "A" SIGN WITH INTERNATIONAL BRAILLE ON FACE PLATE AT STA. 116+43.52' RT., 116+77.113' RT. AND 117+84.32' LT. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).

D. INSTALL 4 IN. SCHEDULE 80 ELECTRICAL CONDUIT TO EXISTING HANDHOLE - SLOTTED.

E. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.

F. INSTALL HANDHOLE.

G. INSTALL 24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.

H. INSTALL 12 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSS WALKS.

I. PAVEMENT MARKING ARROWS - INSTALL BY OTHERS.

J. INSTALL NON-INVASIVE MICRO-LOOP PROBES WITH 1000 FT. LEAD-IN. (TO BE PLACED IN THE THRU LANES)

K. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.

L. INSTALL OVERHEAD VIDEO DETECTION CAMERA MOUNTED ON MAST ARM.

M. UNCOVER THE LED PEDESTRIAN SIGNAL HEAD AND SIGN INSTALLED IN PHASE 2.

N. USE EXISTING HANDHOLE.

O. USE EXISTING CONDUIT AND INSTALL SIGNAL CABLES.

P. USE EXISTING CABINET AND INSTALL SIGNAL CABLES.

Q. USE EXISTING 200 AMP METER SERVICE PEDestal.

R. REMOVE EXISTING SIGNAL POLE, BACK GUYS, SIGNAL HEADS, VIDEO DETECTION CAMERAS, SIGNS, SPAN WIRE AND LIGHTING ARM.

S. REMOVE GROUND MOUNTED SIGN.

T. REMOVE GROUND MOUNTED SIGN.

U. CAP AND ABANDON EXISTING CONDUIT.

V. VIDEO DETECTION ZONE.

W. INSTALL GROUND MOUNTED SIGN.

X. INSTALL 1 INCH RIGID GALVANIZED CONDUIT - TRENCHED.

Y. INSTALL CONCRETE FOUNDATION WITH 14 FT. STEEL PEDESTAL POLE, BREAKAWAY BASE AND SIGNAL HEAD AT STA. 309+30.20 RT. (NOTE: ONE 3 INCH PVC SCHEDULE 80 CONDUIT BEND).

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE END.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL UNUSED CABLES FROM ALL CONDUITS AND HANDHOLES.

3. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATICS ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

4. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD. 816.03, MD 818.01, MD 818.02 & MD 818.40. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

GEOMETRIC LEGEND

--- EXISTING
--- PROPOSED

UTILITY LEGEND

--- SD --- STORM DRAIN
--- GAS --- GAS MAIN
--- WATER --- WATER MAIN
--- SAN --- SEWER MAIN
--- UG ELEC --- ELECTRIC CABLES
--- A --- AERIAL CABLES
--- UG TEL --- TELEPHONE CABLES
--- UG FO --- FIBER-OPTIC

PROPOSED APS PUSHBUTTON STATION

R10-4(1) R10-4(1) R10-4(1) R10-4(1)

(MOD)(9"x15") (MOD)(9"x15") (MOD)(9"x15") (MOD)(9"x15")

PUSH BUTTON TO CROSS WOODMORE ROAD

PUSH BUTTON TO CROSS ENTERPRISE ROAD

PUSH BUTTON TO CROSS WOODMORE ROAD

PUSH BUTTON TO CROSS ENTERPRISE ROAD

STREET NAME BRaille TYPE 2

18a 19a 21a,23a, 20a,22a.

a,b,c,d,e,f

NEMA PHASING

01 02 03 04 06 ALT. FLASHING OPERATION

05 06 07 08 04 ALT. 08 ALT.

NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

AERIAL CABLE DETAIL

PRIMARY 60' 0"

SECONDARY 55' 0"

COMMUNICATION CABLE 43' 0"

GRADE

208'

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GENERAL NOTES

5. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.

6. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.

7. "PUSHBUTTONS ARE TO BE LOCATED SO THAT CAN BE ACTIVATED BY A PERSON IN A WHEEL-CHAIR FROM A 60" x 60" LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%."

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DIVISION

ASSIST. CHIEF TRAFFIC ENGINEERING DIVISION

CHIEF TRAFFIC ENGINEERING DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

REVISIONS

INTERSECTION IMPROVEMENT DUE TO ROADWAY WIDENING CONTRACT NO. 822-HD) 01/2009

SWA CSW 1/1/2009

INSTALLED VIDEO CAMERA FOR DETECTION 1/1/2009

MODIFY SIDE STREET PHASING TO OPERATE SPLIT 9/1998

NML DD DAZ

STATE OF MARYLAND

DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY

TRAFFIC ENGINEERING DESIGN DIVISION

LOTTSFORD, WOODMORE AND ENTERPRISE ROADS IMPROVEMENT PROJECT MD 193 (ENTERPRISE ROAD) AT LOTTSFORD ROAD / WOODMORE ROAD

GLENDALE, MARYLAND

ULTIMATE SIGNAL PLAN

SCALE 1"=20' DATE 8-1-90 CONTRACT NO. BW 328-802-312

DESIGNED BY COUNTY PRINCE GEORGES

DRAWN BY W.J. NIES LOGMILE 16019316.58

CHECKED BY R.R. ZACHERL TMS NO. 1-952

FAP NO. N/A TOD NO. N/A

TS NO. 2672 F DRAWING pSG-P003 OF P003 SHEET NO. 128 OF 147